CONTROL ROOM WORKSTATION

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Brief Summary:

Change History Log

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GENERAL DESCRIPTION

1.1 INTENT

The following specifications pertain to the design, manufacture and delivery of the technical desks referred to as the Control Room #1 consoles for flat panel display based operator workstations.

The console shall be designed to accommodate a variety of computer displays, communication and operator interface devices and include appropriate wire management for said devices.

The console shall satisfy the functional, aesthetic and ergonomic requirements of the operator’s working environment. Note that the low profile design allows for viewing over the top of the console (with single tier of monitors).

The console shall be of a modular design, allowing for future equipment and room layout configurations with no on site machining of components.

The consoles shall be fabricated to meet or exceed recognized industry quality standards. Consoles shall have been tested and is certified as ANSI/BIFMA X5.5-2008 compliant.

1.2 SCHEDULE

Upon award of contract and issue of purchase order, the supplier shall provide a project schedule with dates based upon the following key milestones:

- Final design submittal
- Pre-production Approval submittal (sign-off)
- Manufacturing cycle
- Delivery date
- Installation

1.3 DESIGN

Supplier shall provide design and applications support:
• Supply detailed CADD (using AutoCAD latest version) layout drawings for co-ordination of site measurements, electrical and mechanical project related elements.

• Supply a pre-production review drawing submittal complete with a finish schedule and color samples as necessary. This submittal shall be reviewed by the Project Manager and other Project personnel for verification of configuration and finish selections prior to start of manufacturing.

• It shall be the responsibility of the Supplier to verify existing conditions. Such conditions shall be brought to the attention of the Owner upon immediate observation to allow required changes to be completed in a timely manner.

1.4 FABRICATION

Supplier shall not purchase any materials or begin manufacturing of consoles until the client representative has approved (signed-off) the design drawings and finishes.

1.5 PACKAGING AND SHIPPING

The Supplier shall be responsible for packaging and shipping the components in a manner consistent with the method of transportation that will ensure their complete and undamaged arrival at their destination.

Delivery instructions will be confirmed prior to packaging and shipping of components.

1.6 INSTALLATION/ SITE PREPARATION

The Supplier shall provide one of the following forms of installation support and service depending on the size and location of the project:

• Installation labour and site supervision;

• On site supervision of client supplied installation labour.

Console components shall not be delivered to installation site until the space in which they are to be installed is ready. Site preparation includes completion of finish on existing walls, flooring, and electrical requirements.

1.7 INSTALLATION AND MAINTENANCE MANUALS
Supplier shall provide two copies of the “Console Installation” manual, which contains the following information: Project specific documentation, color and finish schedule, installation acceptance/sign off documents and console installation guide.

1.8 WARRANTY

- The console supplier shall warrant that all console components will be free from defects in materials and workmanship from the date of installation for a minimum of fifteen (15) years.

1.9 QUALITY ASSURANCE

Supplier will show evidence that the management staff involved in the design and coordination of the project activities has a minimum of ten years experience specializing in console design and project management.

Console installers shall be certified by console manufacturer and/or experienced in the installation of similar systems.

Console supplier’s facility shall be available for viewing prior to award of contract. Vendor to demonstrate their capability to perform all aspects of project scope of work as specified.

2.0 GENERAL PRODUCT DESCRIPTION, DIMENSIONS & CAPACITIES

Each console module will consist of a base structure with a built in cable management system and a horizontal worksurface area. Typical optional components consist of a monitor support deck, or monitor arms, upper turrets for rackmount rails, fixed, swing-out, or slide-out processor shelves, internal rackmount rails, doors and or modesty panels. These components can be easily arranged to provide a high level of equipment placement flexibility.

The console is capable of supporting many other accessories such as task lighting, keyboard & pencil drawers, power/ data outlets, specific cable tray requirements, phone shelves, binder storage, paper organizer etc.

The console offers the highest level of retrofit capability. At any time after initial installation the console layout can be easily reorganized without the need for on-site cutting, drilling or machining. Typically the only component that will require re-work or replacement is the worksurface in order to achieve a seamless operator-working environment.

2.1 GENERAL PRODUCT DIMENSIONS

2.1.1 Dimensional Information:
• Console Depth: worksurface nosing to rearmost point = 38”
• Console Height: Finished floor to top surface of fixed worksurface = 28 ½”
• Console Height: Finished floor to top surface of typical single tier monitor = 46 ½”

2.1.2 Equipment Capacity:

• Monitor Space: maximum monitor size is limited only by the desired console module length (ex. if 72” module length is required then maximum monitor case width would be 3 @ 24”diagonal or 4 @ 18”diagonal)

• Processor Space: Maximum processor width = 12” (8 ½” on swing-out shelf), depth = 20 1/2” (17 ½” on swing-out shelf), height = 22 1/4”

2.2 MATERIAL AND PERFORMANCE SPECIFICATION

2.2.1 Console Structure

The typical console system consists of the following components:

• Extrusions (Aluminum Alloy): the structural extrusions are constructed of thick wall, custom profile extruded aluminum. The structural extrusions shall be cut to length within a manufacturing tolerance of: linear +0, -1/32”, angular +/- 0.25 degrees.

• Other structural assembly components: precision-tooled cold-rolled steel (C.R.S.) is used for structural components such as processor cabinet frames and structural gussets. All surfaces are finished with a highly durable electrostatic Powdercoat finish. Manufacturing tolerances on the structural sheet metal components are linear: +/- 0.020” angular +/- 0.25 degrees.

2.2.2 Typical Console Attachments

• Worksurface Support Arm:
  Material: ¼” steel plate.
  Finish: Black Powdercoat.

• Console Support Foot:
  Material: ¼” steel plate.
  Finish: Black Powdercoat.
- Monitor support deck:
  Material: 5/8” MDF with black High Pressure Laminate (HPL) surfaces and edges.
  Capacity: 300 lbs.

2.2.3 Typical Components

- Processor Shelves:
  Material: Fixed: 14 gauge cold rolled steel.
  Swing Out: 14 gauge cold rolled steel.
  Capacity: Fixed: 100 lbs. (per standard 24” module).
  Swing Out: 50 lbs. (per shelf).
  Finish: Black Powdercoat.

- Rackmount Kits (19” wide rackmount):
  Internal rackmount kit (under counter) = 10 Rack Units (17 ½”).
  Full Upper rack mount Kit = 8 RU (14”).
  Partial Upper “turret” rackmount Kit = 2 RU (3 ½”) - under monitor.
  Material: 12 gauge cold rolled steel.
  Finish: Black Powdercoat.

- Upper turret CD ROM drive or accessory power kit:
  Material: 14 gauge cold rolled steel.
  Finish: Black Powdercoat.

- Power Bars (Domestic):
  Rated: 15 amps – 125VAC.

- Cable management: the standard built-in dual cable management system is designed to accommodate two 2” x 4” wiring runs. They provide continuous cable management along the entire length of the console row.

- Monitors mounted on an articulating monitor arm are attached to a horizontal extrusion. This provides infinite left to right adjustment along the Genesis Console.

2.2.4 Worksurfaces

The rigid worksurface shall be a smooth level workspace. It shall be compatible with accepted human factors criteria. All ergonomic standards have been taken into consideration including knee well space, view/reach...
distances and keyboard height. Fixed and worksurface configurations shall comply with US Federal Government ADA accessibility regulations.

Materials: 1” particle Board, high pressure plastic laminate surfaces (nominal thickness: 1.2 mm / 0.048”).

Static Load: 50 lb. per linear ft.
Maximum per adjustable worksurface is 250 lbs.

2.2.5 Cladding Options (panels)

- Hinged door panels:
  Standard: 11/16” particle board core w/ HPL facing & edges.
  Options: 18 gauge steel, wood veneer or other finish materials as may be specified.

- Modesty Panels:
  Standard: 11/16” particle board core w/ HPL facing & edges.
  Options: 18 gauge steel, wood veneer or other finish materials as may be specified.

- Privacy Panel Options:
  16 gauge perforated pattern steel curved panel.
  16 gauge sheet metal panel with fabric wrapped tackable core.
  Plastic laminate, wood veneer or other finish materials as may be specified.